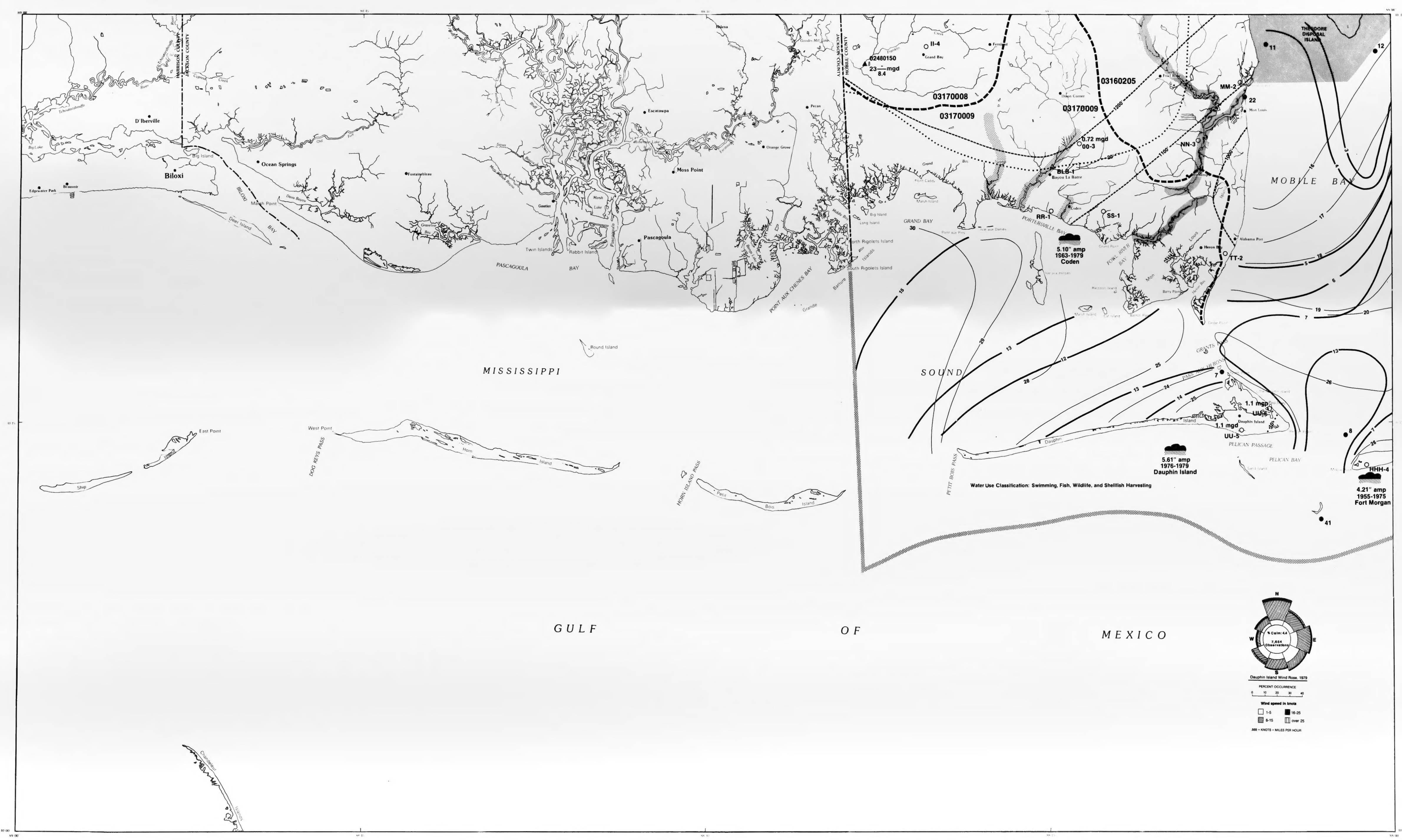
I 49.89:82/46/MAP E 5

BILOXI.ECOLOGICAL ATLAS OF COASTAL ALABAMA,
HYDROLOGY AND CLIMATOLOGY. . . FWS/OBS-82/46-
MAP E5. . . UNITED STATES DEPARTMENT OF THE
INTERIOR. . . 1984

1 OF 1
12.5X
SUPTDOCS/GPO
MAP E5



SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 5 METERS

THE COASTAL ALABAMA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS NO. 14-16-0009-81-062) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC TO DETERMINE AND EVALUATE CHANGES AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. COASTAL ALABAMA IS DEFINED AS THE COMBINED BOUNDARIES OF MOBILE AND BALDWIN COUNTIES, ALABAMA INCLUSIVELY AND EXTENDS APPROXIMATELY 3 MILES OFFSHORE. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT OR TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOGRAPHS, AND REPORTS. SINCE MANY SOURCES CONTAINED ONLY GENERALIZED LOCATONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

WATER QUALITY AND DISCHARGES: Reed and McCain 1971, 1972; South Alabama Regional Planning Commission 1979; U.S. Army Corps of Engineers 1981b.

WATER USE CLASSIFICATIONS: South Alabama Regional Planning Commission 1979.

GROUND WATER WELLS: Reed and McCain 1971, 1972; U.S. Army Corps of Engineers 1981b; South Alabama Regional Planning Commission 1979.

MIOCENE-PLIOCENE AQUIFER: Reed and McCain 1971, 1972; Walter 1976.

SALINIITES: Bault 1972.

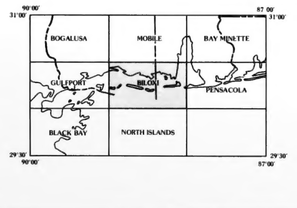
U.S. GEOLOGICAL SURVEY HYDROLOGIC UNITS: U.S. Geological Survey 1974.

AREAS OF HURRICANE INUNDATION: U.S. Army Corps of Engineers, 1981a.

AVERAGE MONTHLY PRECIPITATION AND WIND ROSES: National Climatic Center 1975, 1979a, 1979b, 1980; Naval Weather Service Division 1959; Schroeder, Horton and Lutz 1979, 1980.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE.

MAP NOTE:
THE BASE MAPS HAVE BEEN COMPILED FROM INFORMATION ON THE U.S.G.S. 1:24,000 SCALE MAP SERIES WHICH MAY VARY IN DETAIL DUE TO DIFFERENT DATES OF COMPILATION.



I 49.89:82/46/map E5

MAP E5

MMS 84-0052
FWS/OBS-82/46

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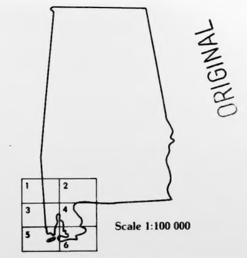
ECOLOGICAL ATLAS OF COASTAL ALABAMA

HYDROLOGY AND CLIMATOLOGY



ORIGINAL

TOPICAL MAPS IN THIS ATLAS:
- A. BIOLOGICAL RESOURCES
- B. SOCIOECONOMIC FEATURES
- C. SOILS AND LANDFORMS
- D. OIL, GAS AND MINERAL RESOURCES
- E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service
and Minerals Management Service

Projection and 10,000 meter grid, zone 17 Universal Transverse Mercator
25,000-foot grid ticks based on Alabama coordinate system, south zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

SURFACE FRESHWATER AVAILABILITY

- ◀ Stream discharge (millions gallons/day, mgd.)
- ▲ U.S. Geological Survey water sampling site and number
- average discharge $\frac{\text{maximum recorded discharge}}{\text{mean annual 7-day low flow}}$
- △ Alabama Water Improvement Commission Water quality sampling site
- ● Mobile 208 water qulaity sampling site

GROUND FRESHWATER AVAILABILITY

- 21 mgd ○ Ground water well discharge (where data is available)
- CC-1 Geological Survey of Alabama well number
- ------ Approximate depth (ft) below sea level of the base of the Miocene-Pliocene aquifer (freshwater) capable of yielding as much as 1 mgd per well.
- ...... Approximate elevation (ft) above sea level to which water will rise in wells penetrating the Miocene-Pliocene aquifer

SALINITIES

- —13— March-April surface salinities (parts per thousand, ppt)
- —26— September-October surface salinities (ppt)

U.S. GEOLOGICAL SURVEY HYDROLOGIC UNIT BOUNDARY

03170008

☐ AREAS OF HURRICANE INUNDATION
Based on Hurricane Frederic, September, 1979

AVERAGE MONTHLY PRECIPITATION (amp)

amp in inches, with period of record and weather station

WATER USE CLASSIFICATIONS

- ▩ Public Water Supply, Fish and Wildlife
- Swimming, Fish, Wildlife, And Shellfish Harvesting
- ▨ Swimming, Fish and Wildlife
- ▨ Fish, Wildlife, and Shellfish Harvesting
- ░ Fish and Wildlife
- ▩ Agricultural and Industrial
- ⁞ Navigation
- ░ STUDY AREA OFFSHORE BOUNDARY
- - - STUDY AREA INSHORE BOUNDARY

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